	Application No.	Applicant(s)
	09/555,046	KIM ET AL.
Notice of Allowability	Examiner	Art Unit
	Thai D Hoang	2667
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	ears on the cover sheet w (OR REMAINS) CLOSED or other appropriate comm IGHTS. This application is	in this application. If not included nunication will be mailed in due course. THIS
1. \boxtimes This communication is responsive to <u>Amendment filed on 0</u>	<u>06/21/2004</u> .	
2. The allowed claim(s) is/are <u>1-8</u> .		
3. The drawings filed on are accepted by the Examine	r. ·	•
 4. Acknowledgment is made of a claim for foreign priority una a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM 	e been received. e been received in Applicati cuments have been receive of this communication to fil	ion No ed in this national stage application from the
 THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give 	itted. Note the attached EXes reason(s) why the oath	AMINER'S AMENDMENT or NOTICE OF or declaration is deficient.
6. X CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.	•
(a) \square including changes required by the Notice of Draftspers	on's Patent Drawing Revie	w (PTO-948) attached
1) hereto or 2) to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date <u>03/19/2004</u> .	3 Amendment / Comment of	or in the Office action of
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the		
7. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT I	SIT OF BIOLOGICAL MAT	ERIAL must be submitted. Note the OLOGICAL MATERIAL.
Attachment(s) 1. Notice of References Cited (PTO-892)	5. ☐ Notice of I	nformal Patent Application (PTO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview S	Summary (PTO-413),
3. Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date	8), 7. ☐ Examiner's	./Mail Dates s Amendment/Comment
4. Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's	s.Statement of Reasons for Allowance
of Biological Material	9. 🗌 Other	

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DETAILED ACTION

Allowable Subject Matter

Claims 1-8 are allowed.

The following is a statement of reasons for the indication of allowable subject matter:

Marchok et al., US Patent No. US 6122246 A discloses an apparatus and method for clock synchronization in a multi-point OFDM/DMT digital communications system. Marchok does not teach or fairly suggest the following features, which are recited in the independent claims 1 and 3 of the present application:

A method of interlocking FFT window position recovery with sampling clock control in symbol units in an orthogonal frequency division multiplexing (OFDM) receiver for receiving an OFDM symbol consisting of a useful data interval and a guard interval, the method comprising the steps of:

- (a) extracting a pilot signal from fast fourier-transformed OFDM received signals, and detecting inter-pilot phase differences,
- (b) <u>averaging phase differences detected in step (a) for a symbol to generate a mean phase difference value and normalizing the mean phase difference by dividing the mean phase difference value into reference values corresponding to phase differences generated when FTT window errors of at least one sample exist, thereby to generate a normalized value as recited in claims 1 and 3.</u>

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably

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accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thai D Hoang whose telephone number is (571) 272-3184. The examiner can normally be reached on Monday-Friday 10:00am-18:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chi Pham can be reached on (571) 272-3179. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Thai Hoang

CHI PHAM

SUPERVISORY PATENT EXAMINE

TECHNOLOGY CENTED SACE